BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : Modified Estimate for Widening and Asphalting of Main Road from Sampigehalli to Agrahara Villagein Ward no. 05, Byatarayanapura Sub- Division

Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete asper specifications.								
		Cum							
	Culvert - 1		1	10.00	0.80	1.00	8.00		
	Culvert - 2		1	10.00	0.80	1.00	8.00		
	Offset								
	Culvert - 1		2	5.00	2.50	1.00	25.00		
	Culvert - 2		2	5.00	2.50	1.00	25.00		
	Drain desilt								
	LHS		1	105.00	0.50	0.40	21.00		
	RHS		1	117.00	0.50	0.45	26.33		
	Berm cutting		23	20.00	1.90	0.35	305.90		
			Net Total Qty				**419.23**		
			Limitted to				**418.24**	**168.63**	**70527.81**
	Tender Quoted Rates								
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
		Cum							
	Culvert - 1		1	10.00	0.80	0.15	1.20		
			2	0.60	2.40	0.15	0.43		
	Culvert - 2		1	10.00	0.80	0.15	1.20		
			2	0.60	2.40	0.15	0.43		
							3.26		
	A) Qty upto 125%								
	Sanctioned Qty	2.72					**3.26**	**4964.60**	**16204.45**
	25% Extra Qty	0.68							
	Total	**3.40**							
	Tender Quoted Rates	**4964.60**							
3	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300								
		Rmtr							
	Culvert - 1		1	10.00			10.00		
	Culvert - 2		1	10.00			10.00		
		Net Total Qty					**20.00**	**3809.70**	**76194.00**
	Tender Quoted Rates								

Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
4	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications								
		Cum							
	Culvert - 1		2	2.40	0.60	1.50	4.32		
	Culvert - 2		2	2.40	0.60	1.50	4.32		
	Deduct for Pipe		-4	0.28	0.60		-0.67		
		Net Total Qty					**7.97**		
	A) Qty upto 125%								
	Sanctioned Qty	2.74					**3.43**	**3920.28**	**13426.96**
	25% Extra Qty	0.69							
	Total	**3.43**							
	Tender Quoted Rates	**3920.28**							
	A) Qty beyond 125%								
	Executed Qty	7.97					**4.54**	**4207.43**	**19114.37**
	Deduct upto 125%	3.43							
	Balance Qty	**4.54**							
	CSR of 2016-17	**4187.00**							
	Area weightage = 6%	**251.22**							
	Sub Total	**4438.22**							
	Deduct 5.20% below	**230.79**							
	Total	**4207.43**							
	Tender Quoted Rates								
5	Providing ruled pointing to coursed stone masonry with cement mortar 1:3,20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.								
		Cum							
	Culvert - 1		4	2.40		1.50	14.40		
	Culvert - 2		4	2.40		1.50	14.40		
	Deduct for Pipe		-8	0.28			-2.24		
		Net Total Qty					**26.56**		
		Limitted to					**14.40**	**94.18**	**1356.19**
	Tender Quoted Rates								
6	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
		Cum							
	Culvert - 1		2	2.40	0.60	0.075	0.36		
	Culvert - 2		2	2.40	0.60	0.075	0.36		
		Net Total Qty					**0.72**		
		Limitted to					**0.16**	**5205.20**	**832.83**
	Tender Quoted Rates								

Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per								
		Cum							
			1.00	758.30	9.83	0.35	**2608.93**		
			1.00	85.00	10.90	0.40	**370.60**		
			Net Total Qty				**2979.53**		
	A) Qty upto 125%								
	Sanctioned Qty	490.00					**612.50**	**135.87**	**83220.38**
	25% Extra Qty	122.50							
	Total	**612.50**							
	Tender Quoted Rates	**135.87**							
	A) Qty beyond 125%								
	Executed Qty	2979.53					**2367.03**	**137.38**	**325192.59**
	Deduct upto 125%	612.50							
	Balance Qty	**2367.03**							
	CSR of 2016-17	**46.00**							
	Area weightage = 6%	**2.76**							
	Lead Charges	**96.16**							
	Sub Total	**144.92**							
	Deduct 5.20% below	**7.54**							
	Total	**137.38**							
	Tender Quoted Rates								
8	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting								
		Cum							
			1.00	758.30	9.83	0.20	**1490.82**		
			1.00	85.00	10.90	0.20	**185.30**		
		Net Total Qty					**1676.12**	**1537.80**	**2577533.95**
	Tender Quoted Rates								
9	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per								
		Cum							
			1.00	758.30	9.83	0.25	**1863.52**		
			1.00	85.00	10.90	0.25	**231.63**		
		Net Total Qty					**2095.15**	**1624.83**	**3404258.11**
	Tender Quoted Rates								
10	KSRRB 500-6.Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MoRT&H Specification No. 502.								
		Sqm							
			1.00	758.30	9.83		**7454.09**		
			1.00	85.00	10.90		**926.50**		

Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
		Net Total Qty					**8380.59**	**26.61**	**223007.47**
	Tender Quoted Rates								
11	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on prepared black topped surfaces at 2.5 kg per 10 sqm,heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour,HOM of machineries complete as per specifications. MORTH / Chapter 5								
		Sqm							
	For DBM		1.00	758.30	9.83		**7454.09**		
			1.00	85.00	10.90		**926.50**		
			1.00	100.00	6.60		**660.00**		
	For BC		1.00	758.30	9.83		**7454.09**		
			1.00	85.00	10.90		**926.50**		
			1.00	100.00	6.60		**660.00**		
		Net Total Qty					**18081.18**	**11.26**	**203594.06**
	Tender Quoted Rates								
12	KSRRB M500-16. Providing and laying dense bituminous macadam 50 mm to 75 mm compacted thickness with 4.5 % VG-30 Bitumen using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-ll, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507								
		Cum							
			1.00	758.30	9.83	0.05	**372.70**		
			1.00	85.00	10.90	0.05	**46.33**		
			1.00	100.00	6.60	0.05	**33.00**		
		Net Total Qty					**452.03**	**6035.56**	**2728250.87**
	Tender Quoted Rates								
13	KSRRB M500-19. Providing and laying bituminous concrete 40mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a paver finisher with to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects as per specifications.								
		Cum							
			1.00	758.30	9.83	0.04	**298.16**		
			1.00	85.00	10.90	0.04	**37.06**		
			1.00	100.00	6.60	0.04	**26.40**		
		Net Total Qty					**361.62**	**7298.97**	**2639479.52**
	Tender Quoted Rates								
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		Sqm							
			2.50	758.30	0.15		**284.36**		

Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
			2.50	85.00	0.15		31.88		
		Net Total Qty					316.24	448.44	141813.54
	Tender Quoted Rates								
15	Providing and fixing of Reflective Raised Pavement marker (RPM's I Cat eyes I Road studs confirming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm X 105mm and reflecting area of 13Sqcm with the slope of retro reflective surface within the limit of 35+ 5 degree to the base on either side. The marker shape II display an initial inimum luminous intensity of 279mcd/lux at an entrance angle of zero degree and observation angle of 0.2degree. The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd/lux with color multiplying factor on either cases for white, yellow and red markers being 1.0,0.6 and 0.25 respectively" The RPM's should be fixed by using two numbers of polymer shanks using appropriate								
		Nos							
		Net Total Qty					900.00		
	A) Qty upto 125%								
	Sanctioned Qty	585.00					731.00	307.15	224526.65
	25% Extra Qty.	146.00							
	Total	**731.00**							
	Tender Quoted Rates	**307.15**							
	A) Qty beyond 125%								
	Executed Qty	900.00					169.00	385.87	65212.69
	Deduct upto 125%	731.00							
	Balance Qty	**169.00**							
	CSR of 2016-17	**384.00**							
	Area weightage = 6%	**23.04**							
	Sub Total	**407.04**							
	Deduct 5.20% below	**21.17**							
	Total	**385.87**							
	Tender Quoted Rates								
16	KSRRB M800-2. Retro-Reflectorised Traffic Signs - Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per revised IRC :67- 2012 made of high intensity grade sheeting vide clause 800.1.3, fixed over Aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications. MORTH Specification No.801								
		Nos							
		Net Total Qty					3.00	3967.38	11902.14
	Tender Quoted Rates								
								SUB TOTAL	12825648.58
	EIRL ITEMS								
1	Providing and Fixing RCC Pre cast cover Slab of 100mm thick for drain in Cement concrete M20 using graded jelly 20mm and down size with steel reinforcement including formwork, lift charges, curing, and concrete finish surface on both sides etc. Complete. as per drawings and direction of Engineer in Charge. (Data Rate).								
		Sqm							

Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
	LHS		1	105.00	1.20		126.00		
	RHS		1	31.90	1.20		38.28		
	RHS		1	15.30	1.20		18.36		
	RHS		1	19.30	1.20		23.16		
			1	14.00	1.20		16.80		
			1	25.00	1.20		30.00		
		Net Total Qty					252.60	1760.00	444576.00
							SUB TOTAL		444576.00
							GRAND TOTAL		13270224.58

CERRIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum

Assistant Engineer

Assistant Executive Engineer

Executive Engineer

29/2/17.

"Modified Estimate Sanctioned"

28/02/17 Chief Engineer Yelahanka Zone Bangalore Mahanagara Palike Bangalore 92